



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,472	01/31/2006	Mutsuhiro Ohmori	284083US6PCT	5687
22850 7590 09/04/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314				
EXAMINER JACOB, AJITH				
ART UNIT 2161		PAPER NUMBER		
NOTIFICATION DATE 09/04/2009		DELIVERY MODE ELECTRONIC		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com  
oblonpat@oblon.com  
jgardner@oblon.com

### Office Action Summary

**Application No.**

10/566,472

**Applicant(s)**

OHMORI ET AL.

**Examiner**

AJITH JACOB

**Art Unit**

2161

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 July 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,3-5,7-12,14-24 and 26-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3-5,7-12,14-24 and 26-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/06)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 16, 2009 has been entered.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 3-5, 7-8 and 10-12, 14-24 and 26-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Hill et al. (US 6,236,981 B1).

For claim 1, Hill et al. teaches:

An information processing device storing user information related to a user and communicating with a plurality of other information processing devices, said information processing device comprising:

presenting means for presenting by wireless communication user information to be read or changed by said other information processing device [payment token from user to merchant platform, column 2, lines 11-12], said user information is updated on a basis of a history of use of contents provided from said other information processing device

Art Unit: 2161

[payer module honors requests based on history of previous transactions, column 13, lines 12-17];

specifying means for specifying permission to read or change the user information presented by said presenting means [user registration database for authentication of user, column 9, lines 28-32];

identifying means for identifying said other information processing device [user and merchant identification module, column 9, lines 44-55]; and

storing means for storing the user information read or changed by said other information processing device identified by said identifying means in association with said other information processing device [user registration database holding user information, column 9, lines 28-30]; and

communicating means for transmitting said user information by quasi-electrostatic field communication, electromagnetic wave communication, or optical communication directly between said information processing device and said other information processing device [payment over communication network, column 2, lines 46-51].

For claim 3, Hill et al. teaches:

The information processing device as claimed in claim 1, wherein a device external to said information processing device is used as an input or output interface [payment server separate to merchant platform, column 2, lines 5-6].

For claim 4, Hill et al. teaches:

The information processing device as claimed in claim 1, wherein when an initial communication with said other information processing device is performed, information for identifying said information processing device is transmitted

Art Unit: 2161

to said other information processing device [payment transaction system for validation, column 2, lines 24-40].

For claim 5, Hill et al. teaches:

The information processing device as claimed in claim 1, wherein when an initial communication with said other information processing device is performed, a first code used by said information processing device to encrypt information [random numbers, column 2, lines 5-6] and a second code generated in correspondence with said first code are generated [digital payment token, column 2, lines 7-10], and said first code is transmitted to said other information processing device [issuance of digital token from random number, column 2, lines 7-10], and a third code used by said other information processing device to encrypt information is obtained via said communicating means [random number in payment server compared for high level of cryptographic security, column 2, lines 24-40].

For claim 7, Hill et al. teaches:

The information processing device as claimed in claim 1, wherein a communication with an information managing device that manages said user information is performed via a network, and said user information is updated so that contents of the user information stored in said information processing device are identical with contents of the user information stored in said information managing device [carnet module supports interaction with merchant and payment service for user information consistency, column 5, lines 25-30].

For claim 8, Hill et al. teaches:

The information processing device as claimed in claim 7, wherein

Art Unit: 2161

said information managing device identifies said other information processing device permitted to read or change said user information, and provides said user information to the other information processing device permitted to read or change said user information via said network [Program called NetSumm to manage user tokens in carnet, column 8, lines 18-55].

For claim 10, Hill et al. teaches:

The information processing device as claimed in claim 1, wherein said user information has preference information indicating preferences of said user, and said preference information is transmitted to an information device specified by said user, and said information device is operated in correspondence with said preference information [payer information based on user preference inputted by user, column 13, lines 11-17].

For claim 11, Hill et al. teaches:

The information processing device as claimed in claim 1, wherein new user information is created on a basis of a plurality of pieces of user information associated with a plurality of other information processing devices [creator module adds new user with multiple user information for payment and merchant platform, column 11, lines 9-17].

Claim 12 is the method of claim 1. Hill et al. teaches the limitations of claim 1 for the reasons stated above.

Claim 27 is the device of claims 1 and 4. Hill et al. teaches the limitations of claims 1 and 4 for the reasons stated above.

Art Unit: 2161

Claim 14 is the recording medium of claim 1. Hill et al. teaches the limitations of claim 1 for the reasons stated above.

For claim 15, Hill et al. teaches:

An information processing device for communicating with a plurality of other information processing devices via a network and storing user information related to a

user, said information processing device comprising:

communicating means for communicating with a portable terminal possessed by the user via said network [client platform via PDA, column 4, lines 38-44];

obtaining means for obtaining the user information, by wireless communication, stored in said portable terminal and relating to said user [transfer information from user to merchant, column 4, lines 28-29];

updating means for updating said user information stored in said information processing device on a basis of the user information obtained by said obtaining means [update on payment server, column 4, lines 30-32], said user information is updated on a basis of a history of use of contents provided from said other information processing device [payer module honors requests based on history of previous transactions, column 13, lines 12-17];

generating means for generating data for updating said user information stored in said portable terminal [updater module updates carnet information database, column 12, lines 34-44]; and

communicating means for transmitting said user information by quasi-electrostatic field communication, electromagnetic wave communication, or optical communication

Art Unit: 2161

directly between said information processing device and said other information processing device [payment over communication network, column 2, lines 46-51].

For claim 16, Hill et al. teaches:

The information processing device as claimed in claim 15, wherein when said portable terminal is not connected to said network, said communicating means communicates with said other information processing device in place of said portable terminal [if authorization refused, sent failure signal to payer module, column 12, lines 49-67].

For claim 17, Hill et al. teaches:

The information processing device as claimed in claim 16, wherein further stored as said user information are: information for identifying said portable terminal;

a password for said portable terminal to authenticate said other information processing device [user registration database requiring password, column 9, lines 28-32];

a first code used by said portable terminal to encrypt information and a second code generated in correspondence with the first code [random number database used to construct payment tokens, column 10, lines 10-23];

information for identifying said other information processing device [authentication token, column 10, lines 10-23];

a password for said other information processing device to authenticate said portable terminal [ID taken to authenticate during collector module, column 12, lines 49-67]; and

a third code used by said other information processing device to encrypt information [PIN identification at merchant module, column 13, lines 19-22].

Art Unit: 2161

For claim 18, Hill et al. teaches:

The information processing device as claimed in claim 15, further comprising updating means for updating said user information on a basis of a history of use of contents provided from said other information processing device [updating based on previous transaction history, column 13, lines 12-17].

For claim 19, Hill et al. teaches:

The information processing device as claimed in claim 15, wherein an access point connecting said portable terminal with said network is identified, a present value of said user is determined on a basis of a position of the identified said access point, and information on the present position of said user is stored as said user information [location of client installation, column 7, lines 64-67 – column 8, lines 1-17].

For claim 20, Hill et al. teaches:

The information processing device as claimed in claim 19, wherein an ID for identifying a device corresponding to said access point and an access key necessary to communicate with said device is further stored as said user information [identification provided, column 4, line 2].

For claim 21, Hill et al. teaches:

The information processing device as claimed in claim 20, wherein said communicating means communicates with said portable terminal at predetermined time intervals to update the information on the present position of said user, the ID for identifying the device corresponding to said access point, and the access key [node access in regular intervals, column 5, lines 6-24].

Art Unit: 2161

For claim 22, Hill et al. teaches:

The information processing device as claimed in claim 21, wherein when a request signal indicating a request for conversation with said user is received from said other information processing device via said network, said user information is transmitted to said other information processing device [payment service request made from client and issued, column 5, lines 31-51].

For claim 23, Hill et al. teaches:

The information processing device as claimed in claim 15, wherein said user information exceeding a storage capacity of said portable terminal is further stored [Merchant Information database also holds records along with carnet information database, column 9, lines 44-67].

Claim 24 is the method of claim 15. Hill et al. teaches the limitations of claim 15 for the reasons stated above.

Claim 28 is the device of claim 15 and 22. Hill et al. teaches the limitations of claim 15 and 22 for the reasons stated above.

Claim 26 is the recording medium of claim 15. Hill et al. teaches the limitations of claim 15 for the reasons stated above.

For claim 29, Hill et al. teaches:

The information processing device as claimed in claim 1, wherein the user information includes the user's name [information being user information, column 7, lines 64-67 – column 8, lines 1-17].

For claim 30, Hill et al. teaches:

The information processing device as claimed in claim 1, further

Art Unit: 2161

comprising:

a sensor configured to detect a radio wave signal emitted from a chip external to the information processing device, and said user is authenticated based on the radio wave signal [payment linked by servers over network, column2, lines 46-51].

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hill et al. as set forth above against claim 1 above, and in view of Van Berkel et al. (US 2002/0190964 A1).

As per claim 9, Hill et al. teaches user identification [user and merchant identification module, column 9, lines 44-55], but does not teach electrostatic field from body of user for authentication.

Van Berkel et al. teaches quasi-electrostatic sensing with user's fingers for authentication [0009-0010].

Hill et al. (US 6,236,981 B1) and Van Berkel et al. (US 2002/0190964 A1) are analogous art because they are from the same field of endeavor of input devices and authentication.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the user identification described by Hill et al. and add quasi-electrostatic sensing as described by Van Berkel et al.

The motivation for doing so would be to have "electric field sensing components that are less bulky than known types [0013].

Therefore, it would have been obvious to combine Hill et al. (US 6,236,981 B1) with Van Berkel et al. (US 2002/0190964 A1) for the benefit of providing more secure authentication.

### ***Response to Arguments***

6. Applicant's arguments filed December 29, 2008 have been fully considered but they are not persuasive. The examiner respectfully traverses applicant's argument.

Applicant argues that Hill et al. (US 6,236,981 B1) does not describe that user information is updated based on the history of use contents provided from the network and that in Hill et al. a request is merely allowed based on the transaction history. Reference clearly teaches the honoring of decisions based on previous transaction history [column 13, lines 12-17], which clearly teaches the updating of user information based on history. Applicant also argues that reference does not teach transmitting user information by quasi-electrostatic field communication, electromagnetic wave communication, or optical communication and only teaches communication over a network such as an internet connection. Hill et al. clearly teaches payment and merchant platform being remote from each other and communication over a network [column 2, lines 46-51]. The communication network described by Hill et al. is not

Art Unit: 2161

limited to a wired connection and can be fulfilled any various broader forms including wave and optical connection.

In light of the forgoing arguments, the 35 U.S.C. 102 and 103 rejections are hereby sustained.

### ***Conclusion***

The Examiner requests, in response to this Office action, that support be shown for language added to any original claims on amendment and any new claims. That is, indicate support for newly added claim language by specifically pointing to page(s) and line no(s) in the specification and/or drawing figure(s). This will assist the Examiner in prosecuting the application.

When responding to this Office action, Applicant is advised to clearly point out the patentable novelty which he or she thinks the claims present, in view of the state of the art disclosed by the references cited or the objections made. He or she must also show how the amendments avoid such references or objections See 37 CFR 1.111(c).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ajith Jacob whose telephone number is 571-270-1763. The examiner can normally be reached on M-F 7:30-5:00 EST, Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Apu Mofiz can be reached on 571-272-4080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2161

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

8/30/2009

AJ  
Patent Examiner

/Apu M Mofiz/

Supervisory Patent Examiner, Art Unit 2161